

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 2002223348
 PUBLICATION DATE : 09-08-02

APPLICATION DATE : 25-01-01
 APPLICATION NUMBER : 2001017195

APPLICANT : OKI ELECTRIC IND CO LTD;

INVENTOR : IKEGAMI KATSUMI;

INT.CL. : H04N 1/387 G06T 1/00 G09C 1/00
 G09C 5/00 H04N 7/08 H04N 7/081

TITLE : ELECTRONIC WATERMARK
 EMBEDDING DEVICE, FORGERY
 DETECTOR AND RECORDING
 MEDIUM

ABSTRACT : PROBLEM TO BE SOLVED: To make influence to image quality small and to simultaneously enhance fabrication detection accuracy in a system for embedding electronic watermark which divides an image into blocks and embeds an authentication code and for detecting forgery.

SOLUTION: In an embedding side (10), the blocks are classified into a plurality of sets by a plurality of respective classification patterns (12), an authentication code is generated for each of the sets formed by the respective classification patterns (13), and the authentication code is allocated to a block belonging to each set to be embedded (18). In a detecting side (20), the authentication code embedded in the block is extracted (24), the existence/absence of forgery within each set is discriminated by using the extracted authentication code (26), and forgery within each block is detected by combining the results (27).

COPYRIGHT: (C)2002,JPO

